

**In the United States Patent and Trademark Office**

In re application of: :  
Chen : Art Unit:  
AN 10/772,153 : Examiner:  
Filed: 02/04/2004 : Atty's Docket: SC-03-01  
For: Roller Cone Bit Design Using Multi-Objective Optimization  
(confirmation no. 1857)

**PRELIMINARY AMENDMENT**

Honorable Commissioner of Patents and Trademarks  
Alexandria, VA 22313

Sir:

Please amend the above application as indicated below. Any fee  
necessary for consideration of this paper has been authorized to be charged to  
Deposit Account Number 07-2320.

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Preliminary Amendment (3 pages)

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